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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/777,297	02/12/2004	Guy-ho Lyu	5649-1206	5272
75	590 12/29/2005		ЕХАМ	INER
D. Randal Aye	ers		SOWARD, IDA M	
Myers Bigel Sil	oley & Sajovec, P.A.			
P.O. Box 37428			ART UNIT	PAPER NUMBER
Raleigh, NC 27627			2822	

DATE MAILED: 12/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	,~		
Office Action Summary		10/777,297	LYU ET AL.			
		Examiner	Art Unit			
		Ida M. Soward	2822			
Period f	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with	the correspondence address			
WHIII - Extending after	HORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D ensions of time may be available under the provisions of 37 CFR 1. or SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC. 136(a). In no event, however, may a rep will apply and will expire SIX (6) MONT. e, cause the application to become ABA	ATION. Oly be timely filed HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).			
Status						
1)🖾	Responsive to communication(s) filed on 14 C	October 2005.				
2a)	This action is FINAL . 2b)⊠ This action is non-final.					
3)[3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.			
Disposit	tion of Claims					
4)🛛	Claim(s) <u>1,3,5-16 and 18-31</u> is/are pending in	the application.				
, —	4a) Of the above claim(s) is/are withdra					
5)🖾	Claim(s) <u>12-16 and 18-31</u> is/are allowed.					
6)⊠	Claim(s) 1,3,5 and 6 is/are rejected.					
7)⊠	Claim(s) 7-11 is/are objected to.					
8)[Claim(s) are subject to restriction and/o	or election requirement.				
Applicat	tion Papers					
9)🖾	The specification is objected to by the Examine	er.				
10)[The drawing(s) filed on is/are: a) acc	cepted or b) objected to b	y the Examiner.			
	Applicant may not request that any objection to the	e drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correct	ction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).			
11)	The oath or declaration is objected to by the E	xaminer. Note the attached	Office Action or form PTO-152.			
Priority	under 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreign		I19(a)-(d) or (f).			
	1. Certified copies of the priority document2. Certified copies of the priority document		nlication No			
	2. Certified copies of the priority document3. Copies of the certified copies of the priority	·	•			
	application from the International Burea	•	scerved in this National Stage			
* ;	See the attached detailed Office action for a list		eceived.	•		
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Attachmer	• •	_				
	ce of References Cited (PTO-892)	4) Interview Su				
	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		Mail Date ormal Patent Application (PTO-152)			
	er No(s)/Mail Date	´ 6) 🗌 Other:				

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05) Application/Control Number: 10/777,297

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DETAILED ACTION

This Office Action is in response to the Applicants' amendment filed October 14, 2005.

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3 and 5-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Liao et al. (5,637,903).

In regard to claim 1, Liao et al. teach a semiconductor device, comprising: a gate electrode 4 on a semiconductor substrate 1; the gate electrode 4 including a metal silicide layer 8 on a polysilicon layer 4 and extending in a first direction; and a conductive line pattern 15 extending in the first direction and being in contact with the gate electrode 4 along the first direction (Figure 6, columns 3-4, lines 5-67 and 1-48, respectively).

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In regard to claim 3, Liao et al. teach a gate insulation pattern 3 between the semiconductor substrate 1 and the gate electrode (Figure 6, columns 3-4, lines 5-67 and 1-48, respectively).

In regard to claim 5, Liao et al. teach the conductive line pattern 15 formed of at least on of aluminum, tungsten, titanium, tantalum, or copper (Figure 6, column 4, lines 26-48).

In regard to claim 6, Liao et al. teach an interlayer dielectric 13 on the semiconductor substrate 1, and wherein the conductive line pattern 15 is disposed in a groove 14 in the interlayer dielectric (Figure 6, columns 3-4, lines 5-67 and 1-48, respectively).

Allowable Subject Matter

Claims 12-16 and 18-31 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: The prior art of record does not disclose, make obvious, or otherwise suggest the structure of the applicant's together with the other limitations of the independent claims, such as a first gate line and a second gate line on the semiconductor substrate and spaced apart from each other, the first gate line including a first gate electrode stacked on a first gate insulation pattern, and the second gate line including a second gate electrode stacked on a second gate insulation pattern; and a conductive line pattern on the first and second gate lines, wherein the conductive line pattern has a first

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portion parallel to the first gate line and a second portion parallel to the second gate line, and wherein the conductive line pattern electrically connects the first and second gate electrodes with each other. The dependent claims being further limiting and definite are also allowable.

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Claims 7-11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

Applicant's arguments with respect to claims 1, 3 and 5-6 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following patents are cited to further show the state of the art with respect to semiconductor devices:

Chen et al. (6,107,108) Ema (4,931,845)

lkeda et al. (5,754,467) Ohta et al. (5,929,958).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ida M. Soward whose telephone number is 571-272-1845. The examiner can normally be reached on Monday - Thursday 6:30am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zandra V. Smith can be reached on 571-272-2429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

IMS

December 23 2005